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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/691,365	10/22/2003	Alan Lampe Browne	GP-303275	4958
7590 09/23/2004 KATHRYN A MARRA General Motors Corporation Legal Staff, Mail Code 482-C23-B21 P.O. Box 300			EXAMINER	
			TORRES, MELANIE	
			ART UNIT	PAPER NUMBER
			3683	
Detroit, MI 4	8265-3000		DATE MAILED: 09/23/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

/							
4	Application No.	Applicant(s)					
	10/691,365	BROWNE ET AL.					
Office Action Summary	Examiner	Art Unit	Mil				
	Melanie Torres	3683	WW				
The MAILING DATE of this communication appreniod for Reply	ears on the cover sheet with the c	orrespondence ad	dress				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely the mailing date of this co D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 01 Ju	ly 2004.						
2a) ☐ This action is FINAL . 2b) ☑ This)☐ This action is FINAL. 2b)☒ This action is non-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1-14</u> is/are pending in the application.	·)⊠ Claim(s) <u>1-14</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>8-14</u> is/are allowed.) Claim(s) <u>8-14</u> is/are allowed.						
· <u> </u>	Claim(s) <u>1,2,6 and 7</u> is/are rejected.						
·	Claim(s) 3-5 is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on <u>01 July 2004</u> is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 1) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
	arminer. Note the attached Office	Action of formal 1	0-132.				
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau 	have been received. have been received in Application in the contract of the c	on No	Stage				
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:) - 152)				
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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1 and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by Namaduri et al.

Re claim 1, Namaduri et al. disclose a magnetorheological damper, the damper comprising: a cylindrically shaped housing (102), a magnetorheological fluid disposed in the cylindrically shaped housing; a piston assembly (104) disposed within the cylindrically shaped housing in sliding engagement with the cylindrically shaped housing defining a first chamber and a second chamber, wherein the piston assembly comprises a plurality of cylindrically shaped fluid passageways (106) extending from the first chamber to the second chamber, and at least one electromagnet (116); and a power supply in electrical communication with the at least one electromagnet.

Re claim 7, Namaduri et al. disclose a third chamber defined by a second floating piston and an end of the housing, wherein the third chamber is filled with an inert gas.

(Figure 4A)

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3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Namaduri et al.

Re claim 2, Namaduri et al. do not teach wherein the plurality of cylindrically shaped fluid passageways defines a cross sectional area of the piston assembly of at least about 30 to about 70 percent. It would have been an obvious matter of design choice to modify Namaduri et al. by having a passageway cross sectional area between 30 and 70 percent since applicant has not disclose that having the specific range solves any stated problem or is for any particular purpose and it appears that the shock absorber would perform equally well with cross sectional areas of a variety of ranges.

5. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Namaduri et al. in view of Munning et al.

Re claims 6, Namaduri et al. do not teach wherein the cylindrically shaped fluid passageway (131) has a diameter that increases from the first chamber to the second chamber. Munning et al. teach wherein the cylindrically shaped fluid passageway (131) has a diameter that increases from the first chamber to the second chamber. (Figure 14) It would have been obvious to one of ordinary skill in the art at the time the invention was made to have provided the fluid passage of Munning et al. in the damper

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of Namaduri et al. since it is well known that such a passage would provide throttling and thus improve the damping characteristics of the damper.

Allowable Subject Matter

- 6. Claims 8-14 are allowed.
- 7. Claims 3-5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

8. Applicant's arguments with respect to claims 1-14 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melanie Torres whose telephone number is (703)305-0293. The examiner can normally be reached on Monday-Friday, 6:30 AM - 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Lavinder can be reached on (703)308-3421. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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September 17, 2004

Milarie Jores